



The OSCILLATOR

Volume 35 Issue 5
May 2012



Editor: Everett W6ABM
w6abm@arrl.net

Oregon Tualatin Valley Amateur Radio Club



"MY TWO CENTS" Pat Roberson

It's May already and time for Club elections. By now eligible-current-member should have a ballot and I hope you will all take time to stop and vote. We have a good selection of candidates. By the way, don't forget to vote in the May 15 Primary Election, too.

Several of our members are part of the Extra Upgrade Class currently being conducted by Carl WS7L; Dave W8FT; Will K7THL; and Everett W6ABM. There is a lot of information to go through in a short time, but I'm confident that we can do it.

The Sea-Pac committee needs your help with Security and the Club with manning the OTVARC booth. If you can volunteer some of your time at SEA-PAC to help out, check out the contact list in this issue of The OSCILLATOR.

73 for now,

Pat Roberson W7PAT
President, OTVARC

SDR Day: Topics in Software Defined Radio

Software Defined Radio is ubiquitous in amateur radio today. Scotty Cowling WA2DFI will lead the "Friday Workshop" at SEA-PAC 30 to explore the state of the amateur SDR art with a panel of speakers.

Hardware topics include present and future open HPSDR projects, the Softrock Motherboard project and an in-depth look at CESDR, a ground-up design of a 60W 20M-6M SDR transceiver.

Software topics include SDR applications for Windows, Linux and Mac environments, including remote SDR operation over the Internet using Ghpsdr3 server with multiple clients; an openHPSDR demonstration is planned.

In addition to Scotty, presenters will be:

Lyle Johnson KK7P
Dan Babcock N4XWE
Jeremy McDermond NH6Z
Rob Frohne KL7NA
Kelvin Bidwell KB1UHM
Michael Noel KF7KIY
David Brainerd WB6DHW

Registration for the workshop is \$18.00 and may be completed online at www.seapac.org.

CLUB MONTHLY MEETING Thursday, May 17th

The April Club Meeting will be held on Thursday, May 17th at Community Building, Sunset Presbyterian Church, 14986 NW Cornell Rd, just off US 26 (Exit 65) in Beaverton. The Meeting begins at 7:00 pm.

We'll hear a report from our Election Committee, Warren Winner W7JDT; Jim Schaeffer KB7ADH; and Kristen Tomson K7KWT. They are reporting the successful candidates for contested positions, President and Trustee, in our election. The Elections Committee will provide the Installation of our new Board, too.

The atmosphere at our Club Meetings is casual. This is a good time to get to know another ham and extend the ring of friendship. Guests are always welcome. No Amateur Radio License is required.

OTVARC is affiliated with ARRL: The National Association for Amateur Radio and is a Special Service Club. Check the map at: tinyurl.com/otvarc-site

Questions? otvarc@gmail.com

HELP STILL NEEDED FOR
"REACH THE BEACH" IN MAY
Contact Jim Schaeffer

FIFTH WEDNESDAY MAY 30

Have some fun, and increase your operating skills. Join us for the second of four **FIFTH WEDNESDAY SIMPLEX CONTESTS** on Wednesday, May 30th. Months with five Wednesdays give us opportunity to demonstrate how simplex communication works on 2 meters.

We meet on 147.54 MHz simplex from 8:00 to 9:00 pm Pacific time. The exchange is your classification (Class A is more than 5 watts; Class B is 5 watts or less, both single operator. Class C is multiple operator) and your Zip Code.

Logs are sent to Janet Bell WB7FJC. An award is given in each class for each occasion. Awards will be announced at the June 21st Club Meeting.

Double points are given for each station worked with a KF7 prefix.

EDUCATION

We have completed the General License Class update and the Extra License Class update series as of May 5th. We had good participation in each series. There are a number of interested persons already waiting for our next General License Class update series. We'll announce another class for this year.

In addition to these series, Janet Bell coordinates the Technician Class preparation series several times a year. Everett Curry coordinates the General and Carl Clawson the Extra.

If you are interested in being notified of any of these classes, send a note with your contact information to otvarc@gmail.com. Club membership is not required for participation.

SIGN UP TO OPERATE THE SPECIAL EVENT

The Special Event Station beginning May 17th celebrates the 30th Anniversary of *SEA-PAC*, the Northwestern Division ARRL Convention at Seaside. The operation will run through Saturday, June 2nd.

Club members are invited to put W7OTV on the air for the weekends of May 19-20 and 25-27. Operations may take place during the intervening week as well. A Special Event QSL Card is being offered to those who complete a QSO.

Suggested frequencies for the *SEA-PAC 30 SPECIAL EVENT STATION* are:

7.190 MHz 14.260 MHz
28.460 MHz

Ron O'Connor KD7VIK is accepting sign-ups to operate the Special Event. Contact him, now, at kd7vik@arrl.net. The Special Event Station is an official component of *SEA-PAC 30*.

OTVARC has been the primary club sponsor for *SEA-PAC* for all thirty years.

BALLOTS DUE MAY 12

The Election Committee is receiving ballots in the 2012 Election. We are electing seven of the nine members of the Board of Directors serving through May 16, 2013.

Ballot envelopes containing a ballot form, brief bio of candidates, and a stamped return envelope have been mailed to those who are eligible to vote (Full Members with dues current). All Ballots are due to the special postal address by May 12, 2012. The Election Committee will count ballots, report the results, and conduct the Installation of Officers and Trustees at the club meeting on May 17th.

Out thanks to Warren Winner, Kristin Tomson, and Jim Schaeffer for serving as our Election Committee this year.

FCC ALTERS 60 METER BAND RULES

The FCC changed it's rules for the Amateur Radio Service at 5 MHz effective March 5, 2012. Here is a plain-language overview of the rules as they apply to the USA.

The FCC adopted the use of the name "60 meter band," when referring to 5 MHz Amateur Radio on frequencies between 5330.5 and 5406.4 KHz. US hams are only allowed to transmit on specific channels in the band (See Chart).

The FCC-adopted rules to allow use by General, Advanced, and Amateur Extra Class licensees. Modes allowed are: USB Phone, RTTY, Data, and CW. There are specific limitations on the use of these modes. No automatically-controlled digital stations allowed.

Amateur Radio is a "secondary user" in this band. We must not cause harmful interference to primary services! Amateur Radio Service must accept interference from primary, other services, and other nations' services.

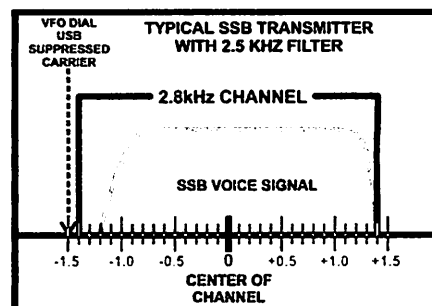
Operators transmitting data or RTTY must exercise care to limit the length of transmission to avoid harmful interference to U.S. Government stations.

The maximum power is 100 Watts PEP effective radiated power referenced to a halfwave dipole. If another antenna is used, the station licensee must maintain a record of the antenna manufacturer's data on the antenna gain or calculations of the antenna gain.

Upper Sideband Phone, Data, or RTTY transmissions may use VFO USB suppressed carrier frequency as listed. Transmissions must not exceed the 2.8kHz bandwidth channel. RTTY modes such as PSK31 must not exceed 60 Hz bandwidth. Data modes must not exceed 2.8 KHz bandwidth. CW bandwidth must not exceed 150 Hz bandwidth and CW must be at the center of the channel.

SSB BANDWIDTH ON 60 METER BAND

Operating with a 2.5 KHz filter, an Upper Sideband transmitter set at 1.5 KHz below the center-of-channel frequency, with a typical voice bandpass of 300Hz to 2800Hz, the signal will just barely meet the requirements of the FCC rules for the 2.8kHz channel.



60 Meter Channel Chart

NAME	DIAL FREQ	Chan Cent FREQ
330 dot 5	5330.5	5332.0
346 dot 5	5346.5	5348.0
357 dot 0	5357.0	5258.5
371 dot 5	5371.5	5373.0
403 dot 5 Int'l Calling	5403.5	5405.0

CONTACT LIST

SEA-PAC SECURITY VOLUNTEERS

Bruce Bullis KG6CI
kg6ci@arrl.net

Eric Keerbs AD7HM
ad7hm@arrl.net

CLUB BOOTH AT SEA-PAC
Ron O'Connor KD7VIK
kd7vik@arrl.net

WORLDWIDE DISTRIBUTION

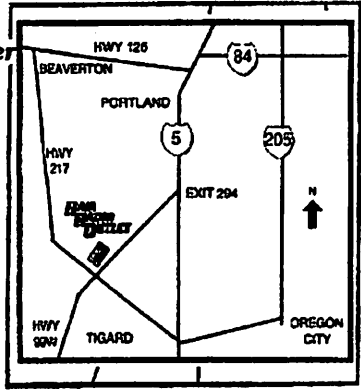


**11705 SW PACIFIC HWY
(99W) SUITE Z
PORTLAND, OR 97223**

SERVING YOU:
**Leon, W7AD, Manager
and
Dan, N7UDE**

Now purchasing select estates
and used equipment on the spot.
Contact Leon

Call toll-free from OR, WA, ID, AK
1-800-854-6046
In Portland 503-598-0555
Fax 503-684-0469



PORTLAND, OR ANAHEIM, CA DENVER, CO OAKLAND, CA
PHOENIX, AZ SALEM, NH SAN DIEGO, CA NEWCASTLE, DE
SUNNYVALE, CA VAN NUYS, CA WOODBRIDGE, VA

7th AREA QSO CONTEST

May 5th is the date of the 2012 7th Call Area QSO Party, commonly, 7QP. Our goal is to activate all counties in the 8-state 7th Call Area (Arizona, Idaho, Montana, Nevada, Oregon, Utah, Washington, and Wyoming).

The Contest opens on Saturday morning at 6:00 am Pacific Daylight Time and concludes at Midnight. Bands are: 160, 80, 40, 20, 15, 10, 6 and 2m, simplex only.

Entry categories:

- Single-op: high-power, low-power <150W, QRP <5W; CW, Phone, Digital, Mixed
- Multi-single (including assisted single-op, e.g., using spotting network): High, low and QRP
- Multi-multi: No differentiated mode or power levels
- 7th-area County Expedition: single-op, multi-single, multi-multi
- Mobile: high-power, low-power, QRP; CW, Phone, Digital, Mixed

See you on HF the first weekend of May.

Nanometer QSO Anyone

Apart from limited military applications, optical telephony remained a relatively impractical form of communication from the invention of the photophone in 1880, to the development of semiconductor light sources and detectors in the 1960s. While optical fiber has become a major component of modern telecommunications, and infra-red remote controls are incorporated in many domestic appliances, optical communication has been largely ignored by radio amateurs.

Construction projects for photophones have been published from time to time over the last 60 years, but there have been few reviews of optical communication and its potential as a medium for amateur voice and data communication. This article is a mixture of history, theory and personal experience, written with the intention of introducing optical communication to the general body of radio amateurs and possibly stimulating further experimentation in the oldest branch of wireless.

The invention of the selenium cell in 1872 and the telephone in 1876, made it possible to detect modulated light, and A.C. Brown of London is generally credited with the first transmission of articulate speech over a light beam in 1878. Much of the pioneer work in optical telephony was carried out by Alexander Graham Bell and Charles Sumner Tainter during 1879 and 1880, which was presented in a paper, read by Bell to the American Association for the Advancement of Science in August 1880.

There is a renewed interest in photophone science. The ARRL now recognizes nanometer work and keeps track of distance records. British hams are breaking ground with various light sources at several different frequencies. Australian hams have on-going experiments and a growing competition at setting distance records.

This will be an area of expanding interest in this decade. How long will it be before you make your first contact on a nanometer band?

HAMFESTS & CONVENTIONS**1 - 3 JUNE 2012****30TH ANNUAL SEA-PAC CONVENTION****NW Division ARRL Convention**

Seaside Convention Center

Seaside Oregon

Online Registration Now Open at:

seapac.org/registration/registration.php

C. Wayne Schuler AI9Q

16414 NE 21st Street

Vancouver, WA 98684

360.892.5580

ai9q@arrl.net**21 JULY 2012****Coos County Hamfest and Swapmeet**

North Bend Junior High School

1600 16th Street

North Bend OR 97459

Coos County Radio Club

Zane Albertson WA7OXM

PO Box 698 Coos Bay, OR 97420

541.396.5778

zane.albertson@gmail.com

Talk-In: 146.61 & 147.28 (PL 146.2)

3 - 5 August 3-5, 2012**57th Annual Pacific Northwest****DX Convention**

Monarch Hotel

Clackamas, Oregon

Willamette Valley DX Club

wvdx.org/dotnetnuke

THE OSCILLATOR is seen each month by more than 200 members who read THE OSCILLATOR. To include your "Business Card" ad (\$48.00 annually) or "Display" - HRO size ad (\$60.00 annually), contact Maureen O'Rourke at 503.591.9641.

DC POWER

Anderson Connectors & More

Wes Allen, K7WWG

665 SW 167th Ave • 503-531-4081

Beaverton, OR 97006

e-mail: sales@dcpwr.comWeb: www.dcpwr.com**HAPPY MAY BIRTHDAY**

1	Don Branda	N7DDK
1	Jim Graffy	AE7W
3	Herb Hirst	K7HLH
3	Len Lardieri	W7JLX
4	David Bissell	KF7AGC
6	David Palmrose	NY7C
6	George Bates	K7GWB
6	Chuck Forsberg	WA7KGX
16	Willy Lund	KC7ICQ
16	Leonard Premelaar	KS6U
18	Wally Boleen	KC7TB
23	Patricia Rickman	N7UUD
23	Kevin Curry	KA7KYQ
24	William Rice	KE7PIV
24	Stephen Coan	KA7MOW
25	Donald Copeland	W7DPV
26	Richard Morgan	KD7GIE
28	Barry Carlson	W7BLC

Did we miss your birthday? Perhaps we don't have it in our list. Drop a note to:

otvarc@gmail.com**MAY LUNCH BUNCH**

Saturday May 26 at 1:30 pm

Reedville Cafe

7575 SE Tualatin Valley Highway

Hillsboro, Or 97123

503.649.4643

On May 10th at 7:30 pm TERAC, Jerry Rust, President, Northwest Power Pool: "A System Update on the Northwest Area's Electric Power Resources."

Max's Fanno Creek Pub, 12562 SW Main St. #100, Tigard, Oregon.

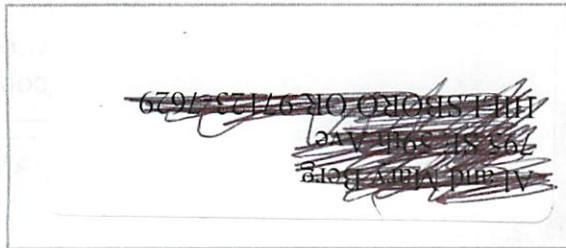
Talk In: 147.54 MHz Simplex

Questions? Linda KC7YTD

kc7ytd@gmail.com

503.372.6286

CLUB MEETING
MAY 17TH



FIRST CLASS MAIL



PORTLAND OR 970
OCT 17 2012 PM 8 T

OREGON TUALATIN VALLEY
AMATEUR RADIO CLUB
880 NE 25th Ave. Ste 2-160
Hillsboro OR 97124-6258



30th Year

**NORTHWESTERN DIVISION ARRL CONVENTION
SEASIDE CONVENTION CENTER**

Seaside Oregon

June 1 - 3, 2012

www.seapac.org

Register Online at:

<http://seapac.org/registration/registration.php>

OTVARC ADDRESSES:

880 NE 25th Ave Ste 2-160

Hillsboro OR 97124-6258

otvarc@gmail.com